VIRTUAL MEETING PROTOCOLS:

1. Please note that the meeting is being recorded.

2. Mute your phone and don’t put it on hold.

3. For each agenda item, the facilitator will ask for comments from Committee members (facilitator will ask participants to use the “hand raise” feature to enter the queue)

4. If you have a clarifying question before the staff report is complete, please use the “chat” function

5. The facilitator will ask for public comments at the end of the meeting.

BLUE RIBBON COMMITTEE FOR THE REHABILITATION OF CLEAR LAKE

Meeting #12
December 9, 2020
AGENDA

Welcome and Introductions
Items for Committee Approval
2019 Recommendations Funding Update
Local/Committee Member Updates
Subcommittees Update
Research Updates
BREAK
2020 Annual Report: Committee Recommendations
Public Comment
ADJOURN
Items for Committee Approval

September 23 Meeting Summary
2020 Funding Update

• Status of 2020 Funding Request:
  • $6.7M requested for 2019 Recommendations
  • Utilizing Proposition 68 Funding: Criteria and Requirements

• Alternative Funding Sources:
  • Grant requests
  • Local funding
2020 Funding Update (Cont.)

Prop 68 Criteria:
• Grants *must* meet two of the following:
  • Recreation
  • Habitat (including benefits to wildlife habitat and water quality)
  • Flood Management
  • Conversion to River Parkways
  • Conservation and Interpretive Enhancement
• Must include a public access/recreation component
• Must be CEQA compliant
• Any property must be acquired from willing sellers
• Project must comply with labor and prevailing wages
• Funds can’t be used to fulfill mitigation requirements
Local and Committee Member Updates

• Clear Lake environmental drivers overview
  • Jayme Smith, Southern California Coastal Water Research Project

• Outreach and presentations to interested 3rd parties
  • Sam Magill, Sacramento State University
Environmental Drivers of Cyanobacterial Blooms and Cyanotoxins in Clear Lake

Southern California Coastal Water Research Project
Jayme Smith, Martha Sutula

Central Valley Regional Water Control Board
Je Sahota, Meredith Howard

San Francisco Estuary Institute
Peter Kneeshaw, Tony Hale

University of Southern California
David Caron, Eric Webb, Gaurav Sukhatme, Brittany Stewart, Amanda Tinoco, Kyra Florea, Chris Denniston, Arvind Kumaraguru, Dale Kiefer

Collaborators:
Elem Indian Colony
Alix Tyler

Big Valley Band of Pomo Indians
Sarah Ryan
Project Goals

1. Conduct a field survey to document and characterize the physical and chemical drivers of cyanobacterial blooms

2. Identify the environmental drivers leading to the production of cyanotoxins

3. Provide data to guide approaches to manage and mitigate harmful cyanobacterial blooms in Clear Lake
Field Survey: August 4 - 28, 2020

Spatial Sampling Approach:

8 sampling days, 10 stations each day

Characterization of:

- Algal biomass (chlorophyll a)
- Cyanotoxins
- Nutrients
- Algal and cyanobacterial community composition
- Water column characteristics (temp, salinity, DO, chl a)
Spatiotemporal Variability in Biomass

Chlorophyll a (µg/L)

High Biomass

Decline

Increase

Map showing spatiotemporal variability in biomass with sites labeled S1 to S10.
Note that sampling stations are not shoreline stations – observed MC concentrations lower than what can occur along the shoreline where major biomass accumulations can occur.
High Biomass Generally Corresponded with Microcystins
Peak MCs in Lower Arm and Oaks Arm

Lake-wide Decline

Increase in Lower Arm
Community dominated by Microcystis

Peak MCs in Lower Arm and Oaks Arm.
Community shift to Lyngba

Increase in Lower Arm
Other organisms present during August

Dolichospermum
Other organisms present during August

Gloeotrichia
Temperature Profiles
Peak MC

Increases in MC

Stratification → Mixing → Stratification

Lower Arm

Oaks Arm
Conclusions and Next Steps

- Observed bloom event with >Caution levels of microcystins
- Highest biomass associated with highest MC concentrations
- Observed shifts in dominant cyanobacterial taxa
- Continue sample analysis
  - Molecular analyses of community comp and cyano metabolic potential
  - Analysis of biological data within the context of the environmental data
Subcommittee Updates

TECHNICAL SUBCOMMITTEE

SOCIOECONOMIC SUBCOMMITTEE
# Socioeconomic Subcommittee Activities

## August 6 Meeting
- Orientation
- Input for collaboration opportunities and membership to represent recreation, recovery

## October 28 Meeting
- Local Updates
- Funding Sources Brainstorm
- Focus Group by CRC

## Upcoming Activities
- Small Group Discussions:
  - Broadband internet access
  - Disaster recovery
  - Workforce development
  - Environmental education
  - Airport development
- Updates to educate the Subcommittee for their input on future recommendations
Research Updates

UC DAVIS TAHOE ENVIRONMENTAL RESEARCH CENTER

UC DAVIS CENTER FOR REGIONAL CHANGE
Clear Lake Blue Ribbon Committee

Bernadette Austin, Acting Director

December 9, 2020
Comprehensive Strategy

Socio-Economic Analysis

Tribal Engagement Strategy

Community Economic Development Strategy
Socio-Economic Analysis

1. Identifying relevant data and their sources: COMPLETE
2. Revisions to socioeconomic analysis based on BRC feedback: COMPLETE
3. Collecting, cleaning and processing data: COMPLETE
4. Data analysis – preliminary results: COMPLETE
5. Data reporting and presentation: COMPLETE
6. Final report: COMPLETE
Community Economic Development Strategy

1. Economic Asset Mapping: COMPLETE
2. Stakeholder Interviews: COMPLETE
3. Literature Review for Promising Practices: COMPLETE
4. Economic Development Interviews: COMPLETE
5. Economic Development Focus Groups: COMPLETE
6. Community Economic Development Framework: IN PROGRESS
Socioeconomic Subcommittee
Identified Key Priorities

1. Rural broadband access (experts: Michelle Scully, Brock Falkenberg)
2. Tribal stewardship/ disaster recovery/ economic development (expert: Jessica Pyska)
3. Environmental education center (experts: Will Evans/CLERC)
4. Youth education and workforce development (experts: Superintendent Falkenberg, Dean Cortez, and Dean Xu)
5. Airport (experts: Lars Ewing, Melissa Fulton)
Economic Development

Approach

1. Convene experts on the topic areas and facilitate discussion
2. Complete asset map of local experts, stakeholders, and initiatives for the focus areas.
3. Identify government agencies and philanthropic organizations that may be sources of funding for the focus areas.
Tribal Engagement Strategy

1. Meetings with tribal leaders: ONGOING
2. UC Davis Resource Guide: WINTER 2021
3. Tribes, Resource Stewardship and Disaster Recovery Report: SPRING 2021
Tribal Engagement

Goals

1. Identify and assess promising practices on tribal resource stewardship, disaster recovery, economic development

2. Build long-term and multi-entry partnerships between area tribes and UC Davis faculty, students, centers
1. Develop a compendium of promising practices for economic recovery to disasters for tribal communities and seek feedback from tribal communities and BRC subcommittees about the best practices particularly as they relate to Clear Lake and other Amenity Based Economic Regions.

2. Create an interactive resources list of UC Davis and UC Wide resources for tribal engagement pertaining to capacity development.

3. Disseminate this information online at the CRC repository and be made available as a resources for Clear Lake Tribal Communities.
Next Steps

By the next Blue Ribbon Committee Meeting in March 2021, we plan to do the following:

- Disseminate socio-economic report
- Develop draft of tribal stewardship, disaster recovery, economic development report
- Develop plan for Tribal-UC Davis resource guide and events(s)
- Convene SES focus groups
- Drafts of targeted research on SES Committee Priorities
Questions & Discussion

Website
regionalchange.ucdavis.edu

Facebook
facebook.com/UCDaxisCRC

Twitter
@RegionalChange
BREAK
RECOMMEND PRIMARY FOCUS ON SECURING FUNDING FOR EXISTING RECOMMENDATIONS

DISCUSS POTENTIAL SHOVEL-READY PROJECTS FOR PROPOSITION 68 FUNDING
2020 Recommendations

- Distributed model of the upper watershed
- Basin-wide monitoring strategy
- Bathymetric survey
- BMP implementation review
- Public perception survey/water quality assessment

Is the monitoring strategy the highest priority?
Should it be funded in full by Prop 68 funds?
Potential Shovel Ready Projects- Updates

• Clover Creek Chi/Hitch Improvements
  • Supervisor Eddie Crandell, Lake County Board of Supervisors

• Kelsey Creek Fish Ladder Improvements
  • Karola Kennedy, Koi Nation
  • Sarah Ryan, Big Valley Band of Pomo Indians

Does the Committee want to proceed with funding these projects?

Are there other, planned projects you would like to discuss?
PUBLIC COMMENTS AND QUESTIONS
QUESTIONS?

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